IN THE CLAIMS

Please make the following claim substitutions:

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1. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the method~~ comprising ~~the steps of~~:

storing location information of other nodes of the ~~packet~~ network, wherein said location information comprises a global position represented by at least two coordinates; and

exchanging the stored location information with adjacent nodes of the ~~packet~~ network.

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2. (Original) The method of claim 1 wherein the stored location information further comprises associated time-stamp information for indicating an age of the location information of the other nodes.

3. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the method~~ comprising ~~the steps of~~:

storing location information of other nodes of the ~~packet~~ network, wherein said location information comprises a global position represented by at least two coordinates;

receiving location information from at least one adjacent node of the ~~packet~~ network; and

merging the received location information with the stored location information ~~for updating~~ to update the stored location information ~~to more current values~~.

4. (Currently amended) The method of claim 3, wherein the stored location information further comprises associated time-stamp information ~~for indicating~~ to indicate an age of the location information of the other nodes and wherein the merging ~~step~~ compares time-stamp information of said received location information to time-stamp information of said stored location information for determining ~~the~~ more current values.

5. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the~~

~~method~~ comprising ~~the steps of~~:

transmitting location information of the node to other nodes of the ~~packet~~ network that are a part of a local topology of the node, wherein said location information comprises a global position represented by at least two coordinates; and

transmitting a location list to nodes of the local topology that are adjacent, wherein the location list comprises location information of ~~at least some~~ at least some of the nodes of the ~~packet~~ network.

6. (Currently amended) The method of claim 5, wherein the location list further comprises associated time-stamp information ~~for indicating~~ to indicate an age of the location information of the ~~at least some~~ at least some of the nodes of the ~~packet~~ network.

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7. (Original) The method of claim 5 wherein at least one of the transmitting steps is periodically performed.

8. (Currently amended) The method of claim 5, further comprising ~~the steps of~~:

receiving location information from at least one adjacent node of the local topology; and

merging the received location information with the location list ~~for updating~~ to update the location list ~~to more current values~~.

9. (Currently amended) Apparatus for use in a node of a ~~packet~~ network, the apparatus comprising:

a global positioning system receiver for determining location information of the node;

a memory for storing a location list comprising location information for other nodes of the ~~packet~~ network, wherein said location information comprises a global position represented by at least two coordinates; and

a communications interface for transmitting, at different times, the determined location information of the node, and the stored location list, to at least one other node of the ~~packet~~ network.

10. (Currently amended) Apparatus for use in a node of a ~~packet~~ network, the apparatus comprising:

~~a memory for storing a location list comprising location information for other nodes of the packet network; and~~

means for generating a location list comprising location information for other nodes of the network, wherein said location information comprises a global position represented by at least two coordinates; and

a communications interface for transmitting the ~~stored~~ generated location list to at least one adjacent node ~~of the packet network~~.

11. (Currently amended) The apparatus of claim 10, further comprising a processor, ~~and~~ wherein ~~the communications interface receives a location list from at least one adjacent node of the packet network and~~ the processor merges the received location list with the stored location list ~~for updating~~ to update the stored location list ~~to more current values~~.

12. (New) The method of claim 1, wherein said node stores a local topology and said node stores said location information of other nodes within and outside said local topology.

13. (New) The method of claim 12, wherein said node uses a geometry-based routing protocol to transmit said location information to nodes outside of said local topology.

14. (New) The method of claim 13, wherein said node determines a distance from a destination node outside of said local topology to nodes in said local topology using said geometry-based routing protocol and said location information to identify the closest node in said local topology for routing to said destination node.

15. (New) The method of claim 1, wherein said node determines said coordinates from information received from a global positioning system.

16. (New) A method for use in a node of a network comprising:

transmitting location information of the node to other nodes of the network that are a part of a local topology of the node, wherein said location information comprises a global position represented by at least two coordinates;

receiving location information from at least one adjacent node of the network; and

updating said location information stored at said node with said received location information.

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17. (New) The method of claim 12, said local topology of said node being nodes located within a predetermined number of hops from said node.

18. (New) The method of claim 17, wherein said local topology of said node comprises a first set of nodes having a point-to-point link to said node and a second set of nodes having a point-to-point link to a node in said first set of nodes.

19. (New) A method for use in a node of a network, comprising:

a) receiving a location list comprising location information for other nodes of the network from at least one adjacent node, wherein said location information comprises a global position represented by at least two coordinates;

b) storing said location list;

c) transmitting the stored location list to at least one adjacent node; and

d) repeating steps a) through c).